



# Cheap Soldering Fan

Written By: William Anderson

## TOOLS:

- [Drill and 1/2" bit \(1\)](#)
- [Hot Glue gun & hot glue \(1\)](#)
- [Soldering Iron and rosin core solder \(1\)](#)

## PARTS:

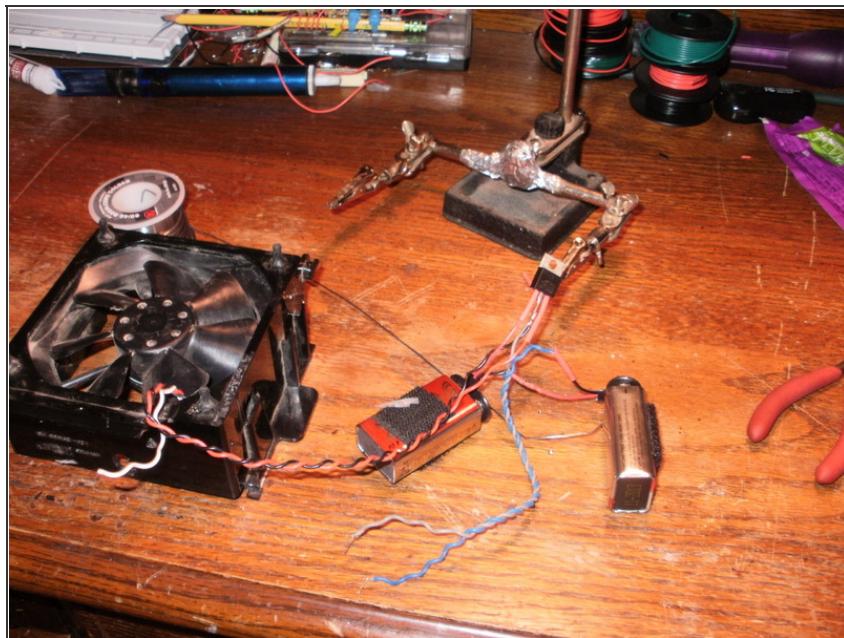
- [7812 Voltage Regulator \(1\)](#)
- [SPST toggle switch \(1\)](#)
- [Computer fan, 5-8 inches square \(1\)](#)  
*I found mine at MACS*
- [9 Volt alkaline battery \(2\)](#)
- [9v battery snap \(2\)](#)
- [Carbon filter pack, 5-8 inches square \(1\)](#)
- [\(optional\) Fan guard, 5-8 inches square \(2\)](#)
- [22 awg wire \(1\)](#)
- [Heat shrink tubing, 6" \(1\)](#)
- [Third-hand tool aka helping hands RS#: 64-079 \(1\)](#)

## SUMMARY

This fume extractor is based on the [mini fume extractor](#) that was made by Marc de Vinck. This is basically a fume extractor mounted onto a third-hand tool. In other words, this is just a thing you can do with the mini fume extractor. If you want a fume extractor to be 1-5

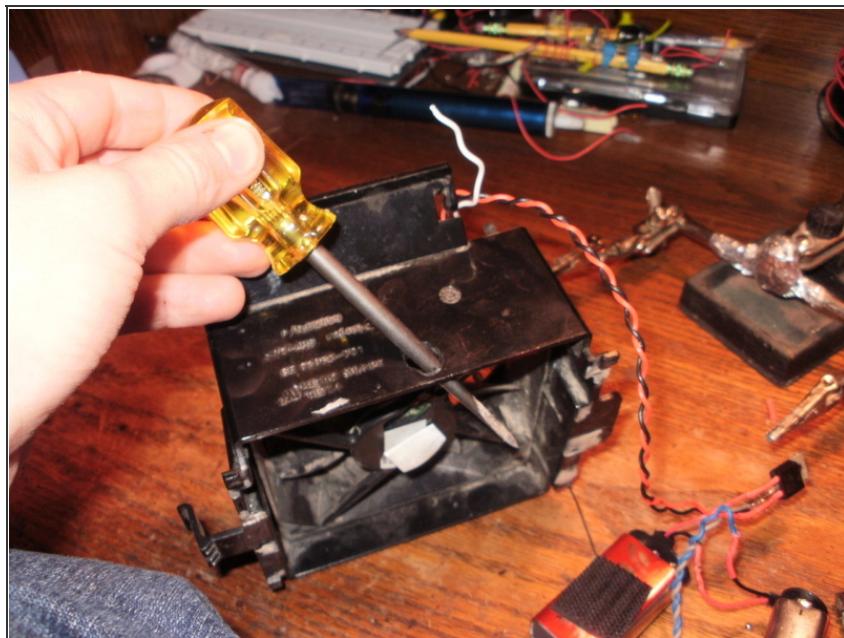
inches away from something then this is a perfect solution.

## Step 1 — Solder it up



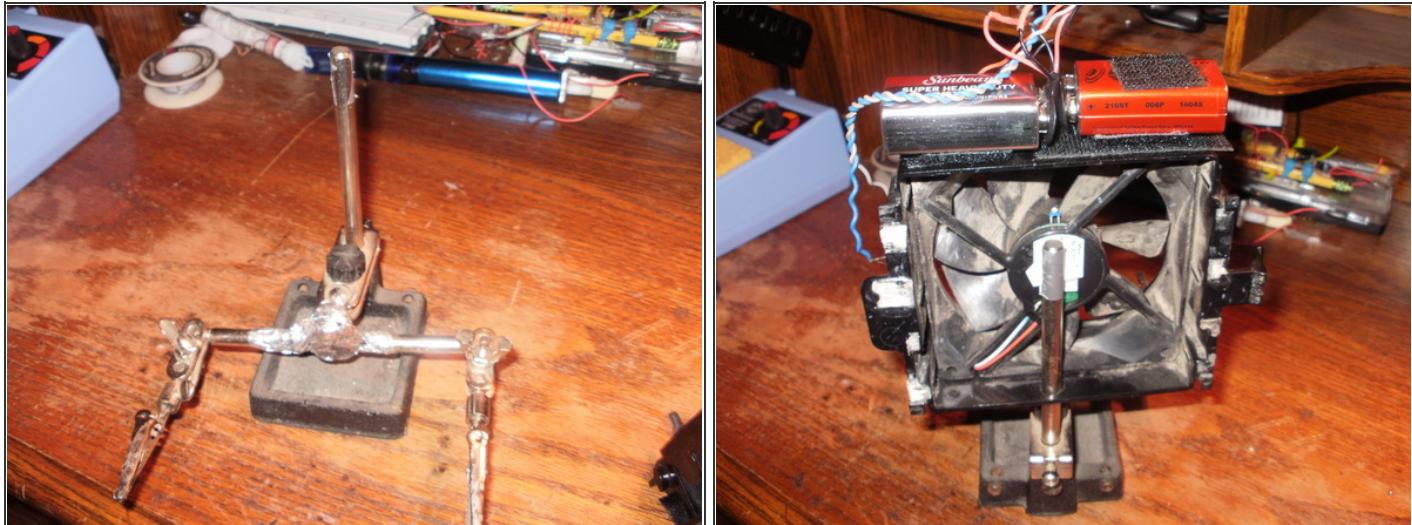
- Follow the instructions on MakeProjects to make a [mini fume extractor](#). Just replace the 40mm fan with the 5-8 inch fan.

## Step 2 — Drill it



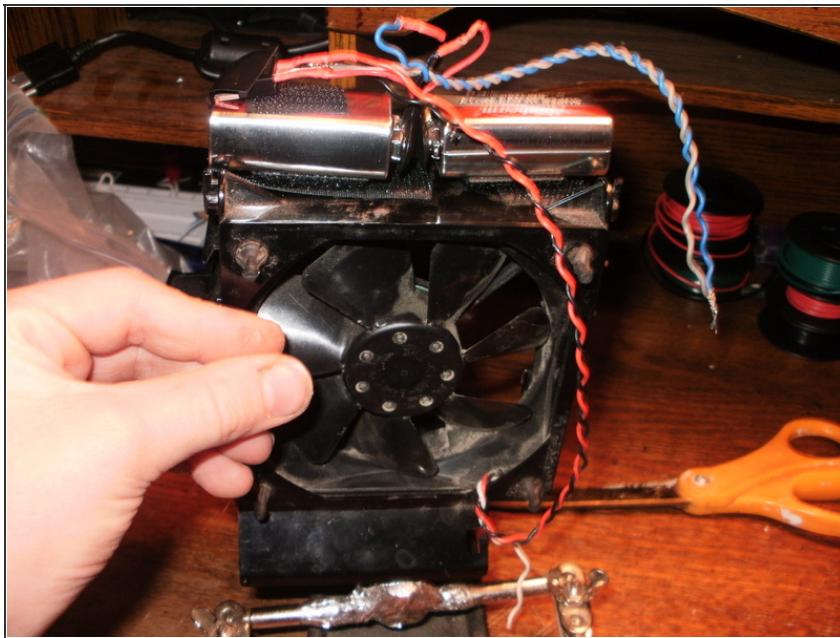
- Drill a 1/2 inch or similar hole in the fan. That is where I am going to attach it to the helping hands.

### Step 3 — Mount it



- In my case, my helping hands came with a magnifying glass, so I had to remove that. Once you remove that, you can fit the fan through the hole. Once you're done with that, you are going to glue on the fan to make it secure.

### Step 4 — Add the filters



- The carbon filters need to be 5 inches to 8 inches. Once you've cut the filter, you are going to glue it on the side where the air rushes out.

## Step 5 — Test

- Turn on the fan, heat up some solder, and let the fumes get absorbed. You will need to change the carbon filters once every 3 months, or when the filter gets all dirty. Happy Making!

This document was last generated on 2012-11-02 11:37:54 PM.